Image Technology

Providing quality and reliability since 1958

MEMRECAM HX-6

High Speed Camera System

2560 x 1920 up to 1,000 frames per second (fps)

HX6 : Full Performance

HX6E : Limited in Frame Rate and Shutter Speed

Memrecam HX-6 Features

CMOS Sensor
2560 X 1920 - all Active Pixels

Bit Depth
12/10/8-bit (selectable)

Adjustable Electronic Shutter
Minimum HX6E 1.1µs; HX6 300ns

Adjustable Frame Rates
in 1fps steps

Adjustable Resolution

Variable Framing Profile
a variety of frame rates in one recording sequence

Multiple Trigger Modes
Burst,multi-trigger, restart-trigger and image trigger

Sync
High resolution timing and sync to < 50ns

Straddle Mode
Inter-frame time for PIV applications = 125ns

Memory Segmentation

Dual Segment Recording
Simultaneously record to two separate memory segments at two different recording speeds

High Light Sensitivity
ISO 2500 (colour) ISO 10,000 (mono)

Ultra High Sensitivity in Super Pixel Mode (2x2)
ISO 10,000 (colour) ISO 40,000 (mono)

Sealed Core
protects against dust, sand, dirt, etc. for use in dirty environments

Auto Exposure Control

Automatic Temperature Calibration

Ultra-Fast Gig-E Interface

Fast Download
to USB 2.0 HDD

Continuous Live Video Output

Stand alone control
no PC required

Memory Backup Battery

Dynamic Range Expansion Shutter

IRIG-B Capture & Sync with Phase Shift

Compact Design
5.5kg -110W x 140H x 333D(mm)

MEMRECAM HX-6

High Speed Camera System

Frame Rate	Available Resolution (examples)		Record Time Sec (8 bit)		
FPS	Hor.	Vert.	8GB	16GB	32GB
100	2560	1920	17.04	34.08	68.16
250	2560	1920	6.81	13.62	27.24
500	2560	1920	3.41	6.82	13.64
1,000	2560	1920	1.70	3.40	6.80
2,000	2048	1184	1.71	3.42	6.84
2,300	1920	1080	1.75	3.50	7.00
3,000	1600	992	1.76	3.52	7.04
4,000	1408	840	1.77	3.54	7.08
4,500	1280	816	1.78	3.56	7.12
5,000	1280	736	1.78	3.56	7.12
6,000	1024	752	1.81	3.62	7.21
7,000	1024	640	1.82	3.64	7.28
7,500	1024	600	1.81	3.62	7.21
8,000	896	632	1.85	3.70	7.40
10,000	768	576	1.89	3.78	7.56
15,000	640	448	1.95	3.90	7.80
20,000	512	408	2.00	4.00	8.00
25,000	512	328	1.99	3.98	7.96
30,000	448	304	2.05	4.10	8.20
40,000	448	240	1.95	3.90	7.80
50,000	384	216	2.02	4.04	8.08
75,000	320	160	2.18	4.36	8.72
100,000	320	120	2.18	4.36	8.72
200,000	320	48	2.73	5.46	10.92
Below is HX6 Model ONLY					
300,000	320	32	2.73	5.46	10.92
470,000	320	16	3.48	6.96	13.92
650,000	320	8	5.03	10.06	20.12

The above are some common format examples
* Note: Recording Time Depends on Memory Configuration, Resolution, Frame Rate and Image Bit Depth.
Recording Time (seconds) = [(Memory Configuration X 1024 X 1,000,000) / (Bytes/Frame)] / (Frames/Second)
Bytes/Frame= (Horizontal pixels X Vertical Pixels X Bit Depth/8)
Model HX6 requires Export Licence
Specification subject to change

Image Technology
The visible difference

NAC Deutschland GmbH
Hedelfingerstr. 54-70
70327 Stuttgart
Germany
Tel: +49 (0)711 2201 885
E-mail: rwestphal@nacinc.de
www.nacinc.eu

NAC Image Technology
1 Beach Street
Dawlish, Devon
EX7 9PN, UK
Tel: +44 (0)1626 867777
E-mail: jimmy.robinson@nacinc.com
www.nacinc.co.uk